Federal Energy Management Program





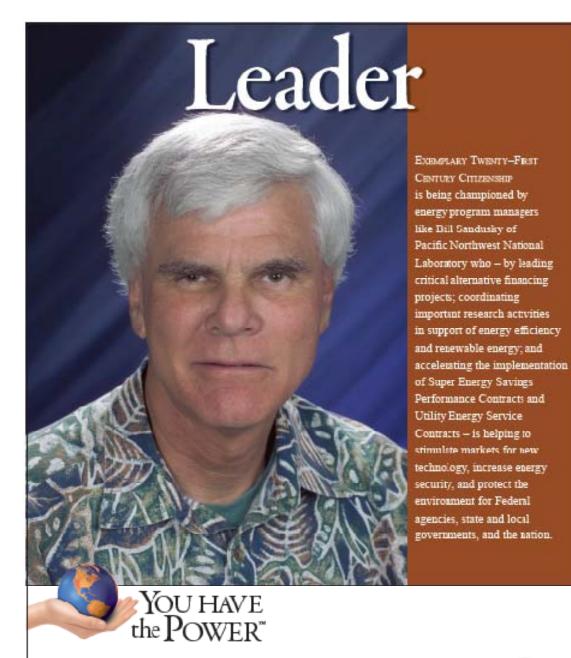
FUPWG Fall 2009

November 18 & 19, 2009 Sailing into Energy Efficiency David McAndrew

FEMP

Utility Program

Forest Energy Manuscrient Program



United States Department of Energy Federal Energy Management Program

> For more information on how you can get involved in the YOU HAVE the POWEE campaign, visit the FEMP With six sowww.em.comgr.gov/fing





TWENTY-FIRST CENTURY CITIZENSHIP is being exemplified by contracting officers like Ed Thibodo of the Naval Facilities Engineering Command SW who by developing and implementing Utility **Energy Services Contracts** (UESCs) at West Coast Navy facilities over the past 15 years - has awarded more than \$500M in energy savings contracts, and used avoided utility costs to upgrade to more energy efficient systems in Navy and Marine Corps facilities.

YOU HAVE the POWER"

United States Department of the Navy Federal Energy Management Program

For more information on how you can get involved in the YOU HAVE the POWEE campaign, with the PEMP With the at www.enu.energy.gov/femp/tervices/fem/







President Obama Signing E.O. 13514



Signing of Executive Order 13514 -Federal Leadership in Environmental, Energy & Economic Performance

- Transformative shift in the way the government operates
- Establishes GHGs as the integrating metric for tracking progress in federal sustainability
- Requires a deliberative planning process
- Links goal achievement to budget allocations and OMB scorecards.
- Establishes numerous additional goals for federal agencies.

E.O. 13514 Goals

- Does not repeal EO 13423 or EISA requirements Agencies must:
- Conduct comprehensive GHG inventory
- Establish GHG reduction targets
- Reduce vehicle fleet petroleum use 30% by 2020
- Reduce potable water consumption by 26% 2020
- Reduce industrial, landscaping, & agricultural water consumption 20% by 2020



E.O. 13514 Goals

- Federal buildings which begin planning by 2020 must achieve zero-net energy by 2030
- Achieve 50% recycling & waste diversion by 2015
- Include sustainability requirements in 95% of all new contracts (Energy Star, EPEAT, FEMP etc.)
- Comply with new EPA storm water management guidance
- Pursue cost-effective & innovative strategies, such as highly reflective & vegetated roofs



Agency GHG Milestones

| Action | Due |
|---|------------------|
| Designate Agency Senior Sustainability Officer | 11 November 2009 |
| Complete Comprehensive GHG Inventory | 4 January 2010 |
| Submit Scope 1 & 2 Target Goals for 2020 | 4 January 2010 |
| Submit Strategic Sustainability Performance Plan, with 2012 budget submission | 2 June 2010 |
| | |



Agency GHG Milestones

| Action | Due |
|--|----------------|
| Submit Scope 3 reduction targets for 2020 | 2 June 2010 |
| Submit to CEQ input on agency adaptation actions | 5 October 2010 |
| Complete Comprehensive 2010 GHG Inventory | 1 January 2011 |
| | |
| | |



Agency Senior Sustainability Officer

Must be Identified by Nov 4, 2009 Responsible for:

- Preparation of agency-wide GHG inventory
- Development of GHG reduction targets
- Preparation and implementation of Strategic Sustainability Performance (SSP) Plan
- Submission of SSP Plan to CEQ & OMB for approval
- Monitoring plan implementation
- Reporting progress to CEQ & OMB



FEMP Specific Actions

| Action | Due | Status |
|--|-------------|------------------------------|
| Develop GHG Targeting Tool | 12 Oct 2009 | COMPLETE |
| Submit GHG Reporting Guidance to CEQ | 5 Apr 2010 | "road testing" with agencies |
| Issue Fed Fleet Guidance | 5 Apr 2010 | Initial draft complete |
| Provide GHG Reporting Tool | 5 Oct 2010 | Work started |
| Support OFEE | Ongoing | |

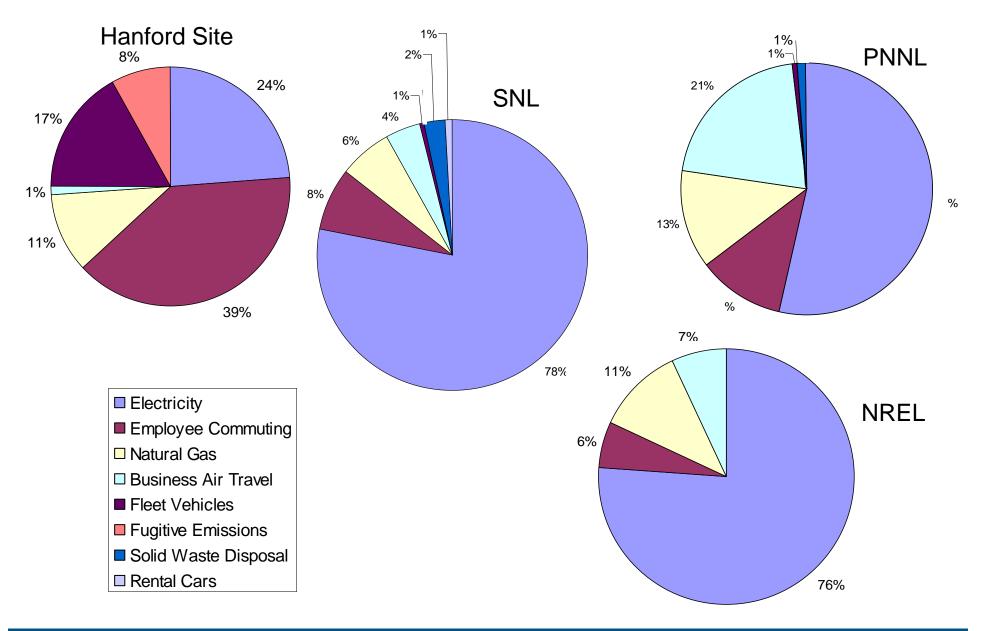
Common Sources of Federal Greenhouse Gas Emissions N₂O **PFCs** CH_₄ **HFCs** CO2 Contractor vehicles, Federal agency Purchased power activities, & services vehicles Employee Fuel combustion for business travel on-site central plant Electricity Natural Gas Employee commuting On-site landfills & wastewater treatment Leased Steam assets Federal housing Fugitive Vendor supply chains: emissions construction **SCOPE 1: SCOPE 2:** SCOPE 3: Greenhouse gas emissions Greenhouse gas emissions Greenhouse gas emissions from

Greenhouse gas emissions from sources that are owned or controlled by a Federal agency.

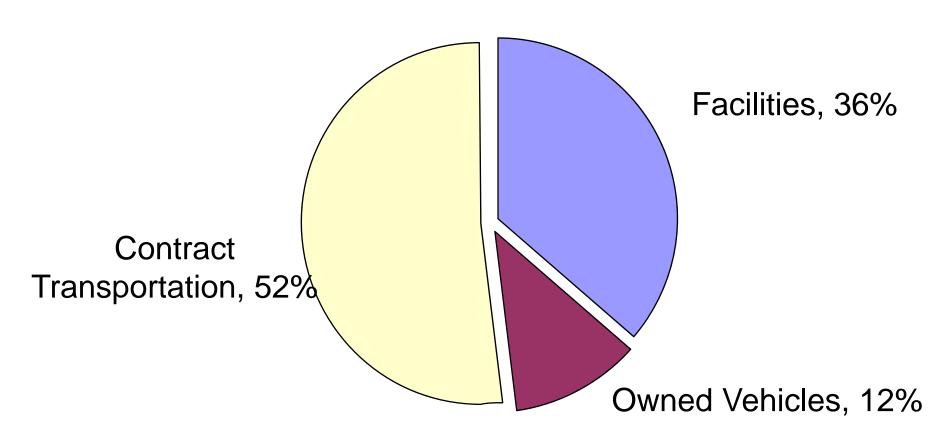
Greenhouse gas emissions resulting from the generation of electricity, heat, or steam purchased by a Federal agency.

Greenhouse gas emissions from sources not owned or directly controlled by a Federal agency but related to agency activities, such as vendor supply chains, delivery services, and employee travel and commuting.

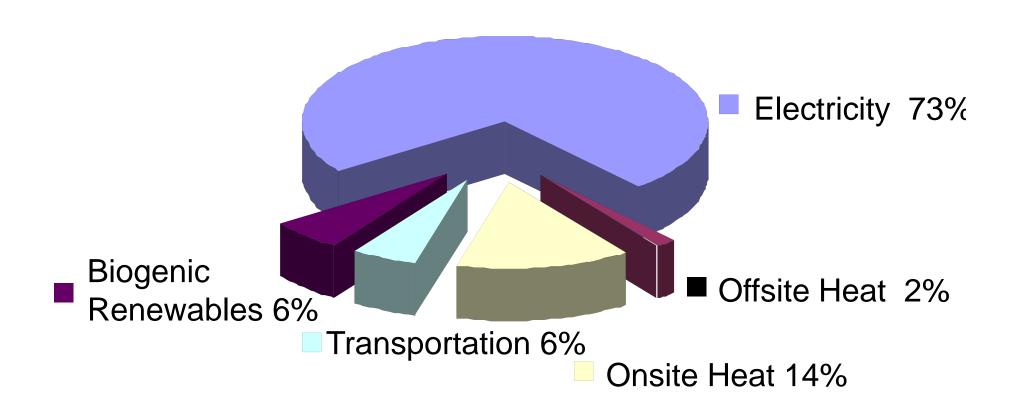
Bottom Up GHG Inventories at DOE Sites



USPS FY07 GHG Inventory (11.2 M MTons CO2e)



NASA FY08 GHG Inventory (1.16M MTons CO2e)





FEMP GHG Targeting Tool

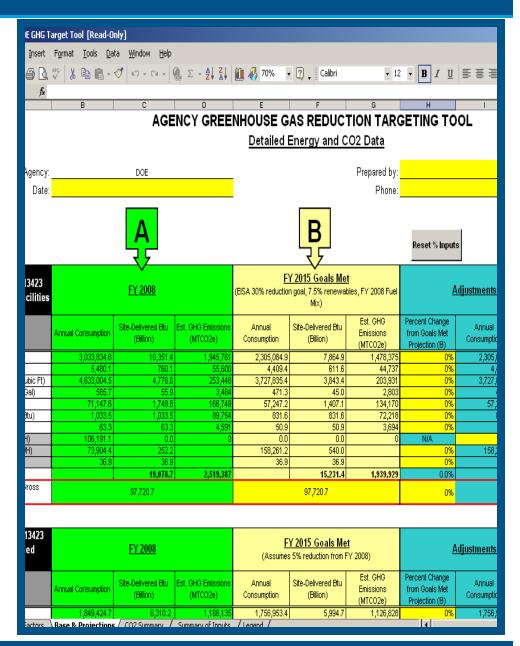
Provides an estimate of current GHG Emissions

Produces performance based reduction targets

Provides a recommended format for GHG target submission and templates for calculations

Centralized location for accessing tools and templates (www.FedCenter.gov)

For Help: Contact Leslie Gillespie-Marthaler (202) 456-5117



Keep in Mind

- This is the <u>first step</u>.
- Tools provided address <u>only</u> the 90-day requirement for establishing GHG reduction targets
- Tools are not intended to be used as a substitute for agency comprehensive GHG emissions inventories, and do not constitute Federal guidance.
- FEMP will coordinate this effort and development of other reporting requirements (e.g., GHG Management Guidance Group, Public Sector Protocol Road-Testing) with our agency representatives



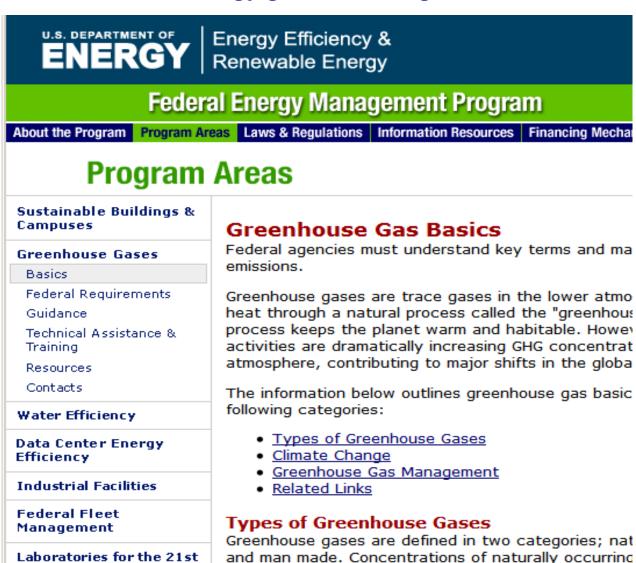
Available FEMP Support

- **Briefings and General information:**
 - Public Sector Protocol (PSP)
 - > PSP Road Test
 - > GHG Guidance Development
- 1-1 technical assistance
- **Available Inventory Tools**
- Reporting Tool
- Case study development
- Training (e.g. GovEnergy course)
- Coordination through emails, meetings, and:
 - FedCenter (www.fedcenter.gov/ghgwg)
 - > Public Sector Protocol (www.ghgprotocol.org/psp)



Resources Available on FEMP Website

FEMP GHGs (www.eere.energy.gov/femp/program/greenhousegases.html)



Matt Gray

Federal Energy Management Program (202) 586-0067

Matthew.Gray@ee.doe.gov

www.eere.energy.gov/femp/program/greenhousegases.html www.fedcenter.gov/programs/greenhouse/ www.ghgprotocol.org/psp



August 15-18, 2010

Dallas Convention Center * Dallas, TX



David McAndrew

Federal Energy Management Program (202) 586-7722

David.McAndrew@ee.doe.gov